PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	(PCT Article 18 and Rules 43 and 44)	
	FOR FURTHER See Notification of	of Transmittal of International Search Report
opilcant's or agent's file reference	FOR FORTILL (Form PCT/ISA/2	20) as well as, where applicable, Item 5 below.
-1144	ACTION	(Earliest) Priority Date (day/month/year)
ternational application No.	international filing date (day/month/year)	
CT/EP 01/09727	23/08/2001	01/09/2000
pplicant		
OEHRINGER INGELHEIM PHAR	MA KG	
	account by this international Searching Au	thority and is transmitted to the applicant
This International Search Report has been according to Article 19. A copy is being to	ransmitted to the international bareas.	
This International Search Report consist X It is also accompanied b	s of a total of sheets. y a copy of each prior art document cited in th	is report.
1. Basis of the report		and and analysis in the
a. With regard to the language, the	e International search was carried out on the b niess otherwise indicated under this item.	
anguage in time.	was carried out on the basis of a translation o	f the international application furnished to this
the international search Authority (Rule 23.1(b))	was carried out on the basis of a second	and a second
were speed to any application	and/or amino acid sequence disclosed in the	international application, the international search
was sorriad out on the pasis VI	file addoction name?	
contained in the interna	tional application in written form.	orm.
Illed together with the in	nternational application in computer readable for	5 ,771
furnished subsequently	to this Authority in written form.	
furnished subsequently	to this Authority in computer readble form.	the discinsure in the
the statement that the sinternational application	subsequently furnished written sequence listing a as filed has been furnished.	g does not go bayond the district has been
the statement that the i	information recorded in computer readable for	n is Identical to the written sequence listing has been
2. X Certain claims were f	ound unsearchable (See Box I).	
3. Unity of invention is		•
4. With regard to the title,	•	
the text is approved as	s submitted by the applicant.	
ihe text has been esta	blished by this Authority to read as follows:	
5. With regard to the abstract,	~	
the text is approved a the text has been estimated within one month from	i the date of maning of the	thority as it appears in Box III. The applicant may, neport, submit comments to this Authority.
5 The figure of the drawings to be	published with the abstract is Figure No.	
as suggested by the		None of the figures.
	nt failed to suggest a figure.	
because this figure b	etter characterizes the invention.	
because this figure b	etter characterizes the invention.	

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 01/09727

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 GO1N33/50 GO1N33/566 C12Q1/68

+49-7351-54-2172

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 GO1N C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

itation of document, with indication, where appropriats, of the relevant passages	
WO 00 31261 A (CADUS PHARMACEUTICAL CORP) 2 June 2000 (2000-06-02)	1-4,8,9, 24-28, 30-43 5,12-15,
	17,18, 21-23, 29,56, 59-61
abstract page 47, line 6 -page 48, line 6 page 73, line 7 -page 74, line 10 claims 1,18,41,62,83,103,123,152,171	
-/	
	abstract page 47, line 6 -page 48, line 6 page 73, line 7 -page 74, line 10 claims 1,18,41,62,83,103,123,152,171

Further documents are listed in the continuation of box C.	Patent tamily members are listed in annex.
Special categories of cited documents: A document defining the general state of the an which is not considered to be of particular relevance E earlier document but published on or after the international filing date L document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition of other means P document published prior to the international filing date but later than the priority date claimed	'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
12 November 2001	03/12/2001
Name and mailing address of the ISA	Authorized officer
European Palent Office, P.B. 5818 Perentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. S1 651 epo ni, Fax: (+31-70) 340-3016	Stricker, J-E

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	INTERNATIONAL SEARCH REPO	International Application No PCT/EP 01/09727
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Calegory *	Citation of document, with indication, where appropriate, of the relevant pass	iges Relevant to claim No.
X	WO 00 06729 A (SLOAN KETTERING INST CANCER) 10 February 2000 (2000-02-10)	1-3,6,7, 24,25, 30,31, 34,35, 38-41 5,29
Y	<pre>page 5, line 1 - line 23 page 19, line 25 -page 20, line 6 page 23, line 26 -page 24, line 2 page 25, line 25 -page 26, line 30 claims 1-13,38</pre>	3,2 ³
X	VEILLETTE ANDRE ET AL: "High express of inhibitory receptor SHPS-1 and its association with protein-tyrosine phosphatase SHP-1 in macrophages." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 35, 28 August 1998 (1998-08-28), pages 22719-22728, XP002117548 ISSN: 0021-9258 abstract page 22722, column 2, line 11 -page column 2, line 6 figures 4,5,7	
Y	US 5 639 593 A (KRIEGLER MICHAEL ET 17 June 1997 (1997-06-17) column 1, line 53 - line 61 column 8, line 33 - line 57	AL) 5,29
Y	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1982 DANIELE R P ET AL: "DEMONSTRATION OF FORMYL PEPTIDE RECEPTOR ON LUNG MACROPHAGES CORRELATION OF BINDING PROPERTIES WITH CHEMO TAXIS AND RELE SUPER OXIDE ANION" Database accession no. PREV19837604 XP002182560 abstract & AMERICAN REVIEW OF RESPIRATORY DI vol. 126, no. 2, 1982, pages 274-28	ASE OF 827 SEASE,

Form PCT/ISA/210 (continuation of second phoof) (LVIY 1992)

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-6, 10-15, 19-24, 28, 30-61 (partially)

Present claims 1-6, 10-15, 19-24, 28, 30, 34, 38-40, 44, 45, 49, 53-58 relate to an extremely large number of possible ILM receptors. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found (p.3, 1.30-39), however, for only a of Article 5 PCT is to be found (p.3, 1.30-39), however, for only a reduced number of receptors. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the receptors FPRL-1, HM74, AICL, ILT1, SHPS, KDEL and CSF-1.

Present claims 30-61 relate to a substance and its use defined by reference to a desirable characteristic or property, namely an activator or inhibitor of an ILM receptor.

The claims cover all substances having this characteristic or property, whereas the application provides support within the meaning of Article 6 whereas the application provides support within the meaning of Article 5 PCT for only a very PCT and/or disclosure within the meaning of Article 5 PCT for only a very PCT and/or disclosure within the meaning of Article 5 PCT for only a very PCT and/or disclosure within the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the substances by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to MMK-1, PMA, smoke, LPS, Lipoxin A4, W-peptide, MCP-1.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/EP 01/09727

		1
Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	-
This Int	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
	Although claims 49-61 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.	
2. X	Claims Nos.: 1-6, 10-15, 19-24, 28, 30-61 (partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
	see FURTHER INFORMATION sheet PCT/ISA/210	
з [Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Вох	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	_
1	iternational Searching Authority found multiple inventions in this international application, as follows:	
1. [As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. [As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
Э. [As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
	The additional search fees were accompanied by the applicant's protest,	
Re	nark on Protest No protest accompanied the payment of additional search fees.	

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 01/09727

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0031261	A	02-06-2000	AU WO	2030000 A 0031261 A2	13-06-2000 02-06-2000
wo 0006729	Α	10-02-2000	US AU EP WO	6160088 A 5324599 A 1100906 Al 0006729 Al	12-12-2000 21-02-2000 23-05-2001 10-02-2000
US 5639593	A	17-06-1997	US US AT AU DE EP WO	5545518 A 5422425 A 197646 T 8337291 A 69132470 D1 0592423 A1 9202822 A1	13-08-1996 06-06-1995 15-12-2000 02-03-1992 21-12-2000 20-04-1994 20-02-1992

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